

Appl. No. : 10/019,513
Filed : August 6, 2002

AMENDMENTS TO THE CLAIMS

1. (Currently amended) An isolated peptide ~~comprising~~ consisting essentially of SEQ ID NO: 1:

Ser Thr Ala Pro Pro Val His Asn Val.

2-10. (Cancelled)

11-12. (Cancelled)

13. (Withdrawn/Currently amended) A nucleic acid having a sequence coding for ~~a~~the peptide selected from the group consisting of SEQ ID NO:1, an amino acid sequence from a signal peptide encoded by the MUC-1 gene, and SEQ ID NO:2of claim 1.

14. (Withdrawn) A vector comprising the nucleic acid of Claim 13, wherein said vector is capable of expression in a cell.

15. (Currently amended) A pharmaceutical composition comprising ~~a peptide selected from the group consisting of SEQ ID NO:1, an amino acid sequence from a signal peptide encoded by the MUC-1 gene, and SEQ ID NO:2~~the isolated peptide of claim 1.

16. (Withdrawn) A pharmaceutical composition comprising the nucleic acid of Claim 13.

17. (Withdrawn) A method for gene therapy, comprising the step of administering the nucleic acid of Claim 13 to a person in need of such therapy.

18. (Withdrawn) A method for gene therapy, comprising the step of administering the vector of Claim 14 to a person in need of such therapy.

19. (Withdrawn) A cell comprising the nucleic acid of Claim 13.

20. (Withdrawn) A cell comprising the vector of Claim 14.

21. (Withdrawn/Currently amended) A method for tumor therapy, comprising the step of triggering an immune reaction by administering to a subject ~~a~~the peptide selected from the group consisting of SEQ ID NO:1, an amino acid sequence from a signal peptide encoded by the MUC-1 gene, and SEQ ID NO:2of claim 1.

22. (Withdrawn) A method for tumor therapy, comprising the step of triggering an immune reaction in a subject by administering to said subject the nucleic acid of Claim 13.

23. (Withdrawn) A method of tumor therapy, comprising the step of triggering an immune reaction in a subject by administering to said subject the vector of Claim 14.

24. (Withdrawn/Currently amended) A method for prophylactic treatment with respect to the development of a tumor, comprising the step of triggering an immune reaction with ~~a~~the peptide

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~~of the group comprising SEQ ID NO:1, an amino acid sequence from a signal peptide encoded by the MUC 1 gene, and SEQ ID NO:2 claim 1.~~

25. (Withdrawn) A method for prophylactic treatment with respect to the development of a tumor, comprising the step of triggering an immune reaction in a subject by administering to said subject the nucleic acid of Claim 13.

26. (Withdrawn) A method for prophylactic treatment with respect to development of a tumor, comprising the step of triggering an immune reaction in a subject by administering to said subject the vector of Claim 14.

27. (Withdrawn/Currently amended) The method of Claim 21, further comprising the steps of:

incubating the ~~wherein said peptide is incubated together with antigen-presenting cells; and~~

administering the ~~wherein said antigen-presenting cells are then administered to the organism from which the antigen-presenting cells or precursor cells of the same were derived.~~

28. (Withdrawn/Currently amended) The method of Claim 22, ~~wherein said~~ further comprising the steps of:

incubating the nucleic acid ~~is incubated together with antigen-presenting cells; and~~

~~wherein said~~ administering the ~~antigen-presenting cells are then administered to the organism from which the antigen-presenting cells or precursor cells of the same were derived.~~

29. (Withdrawn/Currently amended) The method of Claim 24, ~~wherein said~~ further comprising the steps of:

incubating the peptide ~~is incubated together with antigen-presenting cells; and~~

administering ~~wherein said antigen-presenting cells are then administered to an organism from which the antigen-presenting cells or precursor cells of the same were derived.~~

30. ((Withdrawn/Currently amended) The method of Claim 25, ~~wherein said~~ further comprising the steps of:

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incubating the nucleic acids ~~is incubated together~~ with antigen-presenting cells;
and

~~wherein administering~~ said antigen-presenting cells ~~are then administered to~~ the
organism from which the antigen-presenting cells or precursor cells of the same were
derived.

31. (Withdrawn) The method of Claim 27, wherein said antigen-presenting cells are
dendritic cells.

32. (Withdrawn) The method of Claim 28, wherein said antigen-presenting cells are
dendritic cells.

33. (Withdrawn) The method of Claim 29, wherein said antigen-presenting cells are
dendritic cells.

34. (Withdrawn) The method of Claim 30, wherein said antigen-presenting cells are
dendritic cells.